

IN THE SPECIFICATION:

At Page 1, please add the following heading before heading “BACKGROUND OF THE INVENTION”:

CROSS REFERENCE TO RELATED APPLICATIONS

At Page 1, please add the following paragraph after the heading “CROSS REFERENCE TO RELATED APPLICATIONS”:

This application claims the benefit of Japanese Application No. 2003-100668 filed April 3, 2003.

At page 1, lines 7-13:

The X-ray CT ~~consists of~~ includes a beam emitter system and detector system, i.e., X-ray emitter system and detector system, which are opposingly placed at both ~~side~~ sides of a subject, and are rotated about the subject while emitting an X-ray beam to the subject (scanning). The X-ray beam transmitted through the subject is detected by the detector system around the subject in a plurality of view directions to measure the data projected through the subject by the X-ray beam in each direction. A tomographic image of the subject can be reconstructed based on the projected data.

At page 2, lines 5-9:

In case in which projection data including the image of foreign matter such as a metal is filtered, data value of the part including the foreign matter may contain high frequency components, which value may abruptly change. The data value in this part may become changed so that the projection data after the ~~invert~~ inverse FFT may have some distortion such as undershoot and overshoot.

At page 9, lines 3-4:

Thereafter, thus filtered continuous data dat\_S will be recovered by the IFFT (~~invert inverse~~ FFT).

At page 10, lines 18-23:

In the filtering (step ST12), the processing is identical to that performed in the first preferred embodiment. More specifically, FFT (fast Fourier transform) is done on the projection data of the subject obtained from the data collector unit 24, then filtering with a filter selected according to the diagnostic purpose or object lesion, and finally recovering by IFFT (~~invert inverse~~ fast Fourier transform) on the filtered data.